

122303  
22783 US PTO

PTO/SB/05 (08-03)

Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 29936/3901

First Inventor Jin Su Park

Title Data Input/Output Buffer and Semiconductor  
Memory Device Using the Same

Express Mail Label No. EV 233 437 240 US

0743904  
U.S.PTO  
223901**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1.  Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original, and a duplicate for fee processing)

2.  Applicant claims small entity status.  
See 37 CFR 1.27.

3.  Specification [Total Pages 14]  
(preferred arrangement set forth below)  
 - Descriptive title of the invention  
 - Cross Reference to Related Applications  
 - Statement Regarding Fed sponsored R & D  
 - Reference to sequence listing, a table,  
 or a computer program listing appendix  
 - Background of the Invention  
 - Brief Summary of the Invention  
 - Brief Description of the Drawings (if filed)  
 - Detailed Description  
 - Claim(s)  
 - Abstract of the Disclosure

4.  Drawing(s) (35 U.S.C. 113) [Total Sheets 2]

5. Oath or Declaration [Total Sheets 4]

a.  Newly executed (original or copy)

b.  Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)

i.  DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s)  
named in the prior application,  
see 37 CFR 1.63(d)(2) and 1.33(b).

6.  Application Data Sheet. See 37 CFR 1.76

ADDRESS TO:  
MS Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

7.  CD-ROM or CD-R in duplicate, large table or  
Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)

a.  Computer Readable Form (CRF)

b. Specification Sequence Listing on:  
 i.  CD-ROM or CD-R (2 copies); or ii.  Paper

c.  Statements verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

9.  Assignment Papers (cover sheet & document(s))

10.  37 CFR 3.73(b) Statement  Power of  
(when there is an assignee) Attorney

11.  English Translation Document (if applicable)

12.  Information Disclosure Statement (IDS)/PTO-1449  Copies of IDS  
Statement Citations

13.  Preliminary Amendment

14.  Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)

15.  Certified Copy of Priority Document(s) KOREA 2003-81959  
(if foreign priority is claimed)

16.  Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i).  
Applicant must attach form PTO/SB/35 or its equivalent.

17.  Other: \_\_\_\_\_

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation     Divisional     Continuation-in-part (CIP) of prior application No.: \_\_\_\_\_

Prior application information: Examiner \_\_\_\_\_

Art Unit: \_\_\_\_\_

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

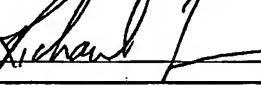
**19. CORRESPONDENCE ADDRESS** Customer Number: 04743    OR     Correspondence address below

|         |   |           |              |          |              |
|---------|---|-----------|--------------|----------|--------------|
| Name    | MARSHALL, GERSTEIN & BORUN LLP<br>Saeid Mirsafian |           |              |          |              |
| Address | 233 S. Wacker Drive, Suite 6300<br>Sears Tower    |           |              |          |              |
| City    | Chicago   | State     | Illinois     | Zip Code | 60606-6357   |
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|                   |   |                                   |                        |
|-------------------|---|-----------------------------------|------------------------|
| Name (Print/Type) | Saeid Mirsafian   | Registration No. (Attorney/Agent) | 52,035                 |
| Signature         |  |                                   | Date December 23, 2003 |

I hereby certify that this correspondence is being deposited with the U.S. Postal Service as Express Mail, Airbill No. EV233437240US, in an envelope addressed to: MS Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Dated: December 23, 2003

Signature:  (Richard Zimmermann)

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003, Patent fees are subject to annual revision.

 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 810.00)

## Complete if Known

|                      |                   |
|----------------------|-------------------|
| Application Number   | Not Yet Assigned  |
| Filing Date          | December 23, 2003 |
| First Named Inventor | Jin Su Park       |
| Examiner Name        | Not Yet Assigned  |
| Art Unit             | Not Yet Assigned  |
| Attorney Docket No.  | 29936/39901       |

## METHOD OF PAYMENT (check all that apply)

Check  Credit Card  Money Order  Other  None

Deposit Account:

Deposit Account Number 13-2855

Deposit Account Name MARSHALL, GERSTEIN &amp; BORUN LLP

The Director is authorized to: (check all that apply)

Charge fee(s) indicated below  Credit any overpayments

Charge any additional fee(s) or any underpayment of fee(s)

Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

| Large Entity                      | Small Entity | Fee Description   | Fee Paid |
|-----------------------------------|--------------|-------------------|----------|
| Fee Code                          | Fee (\$)     | Fee Code          | Fee (\$) |
| 1051                              | 130          | 2051              | 65       |
| 1052                              | 50           | 2052              | 25       |
| 1053                              | 130          | 1053              | 130      |
| 1812                              | 2,520        | 1812              | 2,520    |
| 1804                              | 920*         | 1804              | 920*     |
| 1805                              | 1,840*       | 1805              | 1,840*   |
| 1251                              | 110          | 2251              | 55       |
| 1252                              | 420          | 2252              | 210      |
| 1253                              | 950          | 2253              | 475      |
| 1254                              | 1,480        | 2254              | 740      |
| 1255                              | 2,010        | 2255              | 1,005    |
| 1401                              | 330          | 2401              | 165      |
| 1402                              | 330          | 2402              | 165      |
| 1403                              | 290          | 2403              | 145      |
| 1451                              | 1,510        | 1451              | 1,510    |
| 1452                              | 110          | 2452              | 55       |
| 1453                              | 1,330        | 2453              | 665      |
| 1501                              | 1,330        | 2501              | 665      |
| 1502                              | 480          | 2502              | 240      |
| 1503                              | 640          | 2503              | 320      |
| 1460                              | 130          | 1460              | 130      |
| 1807                              | 50           | 1807              | 50       |
| 1806                              | 180          | 1806              | 180      |
| 8021                              | 40           | 8021              | 40       |
| 1809                              | 770          | 2809              | 385      |
| 1810                              | 770          | 2810              | 385      |
| 1801                              | 770          | 2801              | 385      |
| 1802                              | 900          | 1802              | 900      |
| Other fee (specify)               |              |                   |          |
| *Reduced by Basic Filing Fee Paid |              | SUBTOTAL (3) (\$) | 40.00    |

\*\*or number previously paid, if greater; For Reissues, see above

| SUBMITTED BY      |   | (Complete if applicable)             |                   |                        |
|-------------------|---|--------------------------------------|-------------------|------------------------|
| Name (Print/Type) | Saeid Mirsfajian  | Registration No.<br>(Attorney/Agent) | 52,035            | Telephone 312-474-6300 |
| Signature         |  | Date                                 | December 23, 2003 |                        |

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